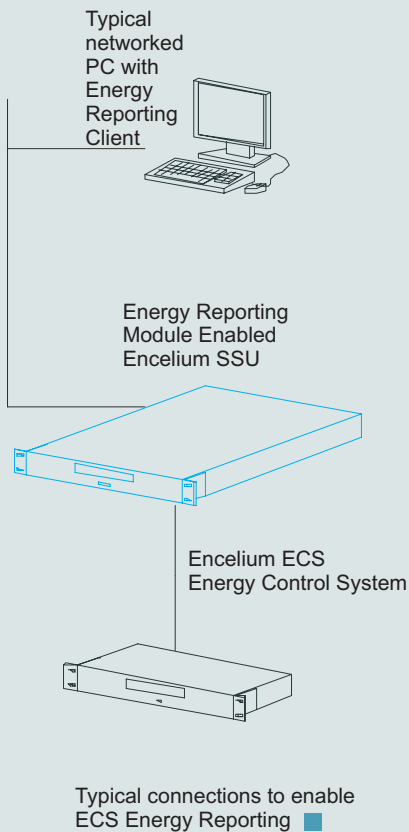


### Encelium ECS Energy Reporting Module Architecture



### ENERGY REPORTING MODULE (ERM)

The Encelium Energy Reporting Module is an extremely powerful software tool that reports on energy performance, energy cost savings, occupancy data and building lighting use in a wide variety of formats.

#### Features:

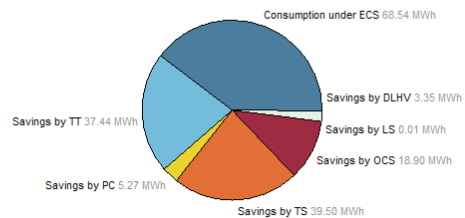
- The software enables a customer to review and compare energy savings against a configurable energy baseline by providing analytical reports with charting capabilities. The specific details of a building and existing lighting energy use are input into the software to set the baseline and the software takes over from there.
- The customer can run reports on an entire space (building), multiple zones, single zones and even down to an individual fixture level to view data on energy savings. The savings can even be broken down by individual light management strategy deployed (task tuning, load shedding, personal control, daylight harvesting and occupancy sensing) to provide unparalleled analytical data allowing for optimal energy performance.
- Reports may be generated and displayed in several convenient formats as required by the customer such as bar charts, pie charts or line graphs.
- Energy Savings may be expressed as dollars saved, kilowatts saved or as a percentage saving over the baseline values.

### ENERGY SAVINGS - PIE CHART FORMAT

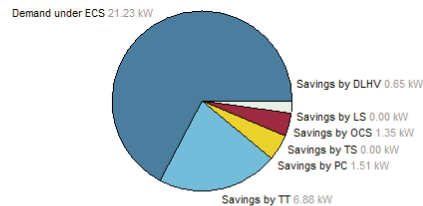
Consumption Savings and Demand Reduction by strategy

compared to pre ECS installation, averaged over 29/07/2007 to 25/08/2008

#### Consumption Savings



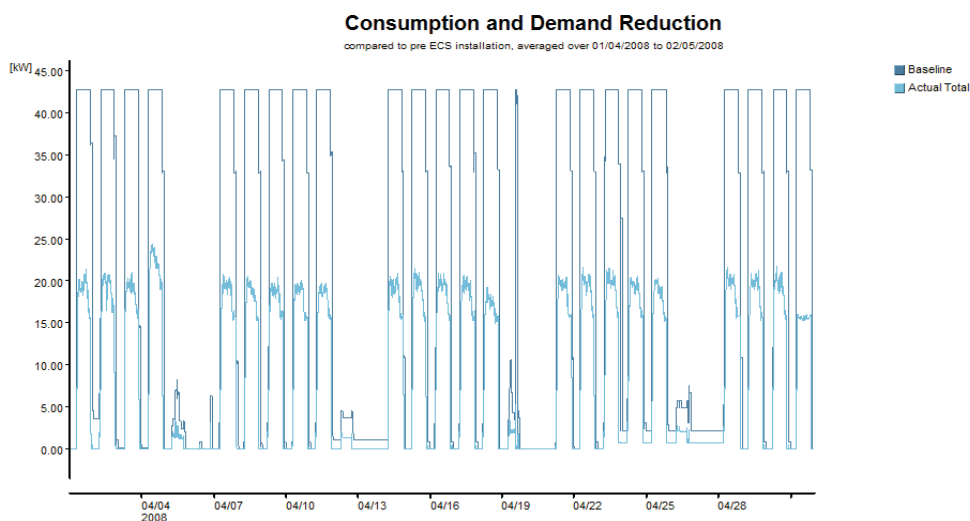
#### Demand Reduction



- Consumption Savings
  - Consumption under ECS
  - Savings by TT
  - Savings by PC
  - Savings by TS
  - Savings by OCS
  - Savings by LS
  - Savings by DLHV
- Demand Reduction
  - Demand under ECS
  - Savings by TT
  - Savings by PC
  - Savings by TS
  - Savings by OCS
  - Savings by LS
  - Savings by DLHV

⚠ Demand Calculation based on a 15 minute (real) sliding window, not synchronized to billing intervals. Actually billed demand is typically more favourable.  
 ⚠ Demand reduction achieved within the partial month at the beginning and/or at the end of this period have been considered as valid for the respective entire month.

## Consumption and Demand Reduction - Bar Graph



⚠ Demand Calculation based on a 15 minute (real) sliding window, not synchronized to billing intervals. Actually billed demand is typically more favourable.  
 ⓘ This Area is not physically (sub)metered. This analysis therefore only considers the lighting load based on a virtual meter. Demand reductions might not coincide with billed demand peak.

- Zone level occupancy data (and reports) are also available allowing for optimization of occupancy sensor control strategies.

### Format/Exporting

- Various chart formats available including line and pie charts, gantt charts, color maps and bar graphs
- Reporting done through Encelium Polaris software.
- Exporting
  - Export and save chart images to bitmap (bmp) format for use in other applications and company report documents
  - Export Data to comma separated variable (csv) format for use with Microsoft Excel or other programs
  - Customized reports available

### SYSTEM REQUIREMENTS

- Operating System: Microsoft Windows 2000/XP
- Min. 100 MB hard drive space
- Min. 256 MB RAM
- Network connection with access to a network-enabled Encelium ECU

Specifications subject to change without notice.

**Cat. # ERM-600**



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